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RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/511,794

Source: PCT

Date Processed by STIC: 10-27-04

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PCT

RAW SEQUENCE LISTING

DATE: 10/27/2004

PATENT APPLICATION: US/10/511,794

TIME: 15:34:45

Input Set : A:\976-20 PCT US seq list.txt

Output Set: N:\CRF4\10272004\J511794.raw

3 <110> APPLICANT: Center for Genetic Engineering and Biotechnology
 5 <120> TITLE OF INVENTION: ANTIBODY FRAGMENTS SPECIFIC FOR HUMAN CARCINOEMBRYONIC
 6 ANTIGEN (CEA)
 8 <130> FILE REFERENCE: 976-20 PCT/US
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/511,794
 11 <141> CURRENT FILING DATE: 2004-10-19
 13 <150> PRIOR APPLICATION NUMBER: PCT/CU2003/000005
 14 <151> PRIOR FILING DATE: 2003-04-28
 16 <150> PRIOR APPLICATION NUMBER: CU2002/0086
 17 <151> PRIOR FILING DATE: 2002-04-09
 19 <160> NUMBER OF SEQ ID NOS: 21
 21 <170> SOFTWARE: PatentIn Ver. 2.1
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 39
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Artificial Sequence
 28 <220> FEATURE:
 29 <223> OTHER INFORMATION: Description of Artificial Sequence: oligo
 31 <400> SEQUENCE: 1
 32 ggggatatcc accatgract tcgggytgag ctkggtttt 39
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 36 <211> LENGTH: 29
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 38 <213> ORGANISM: Artificial Sequence
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 49 <212> TYPE: DNA
 50 <213> ORGANISM: Artificial Sequence
 52 <220> FEATURE:
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 61 <212> TYPE: DNA
 62 <213> ORGANISM: Artificial Sequence
 64 <220> FEATURE:
 65 <223> OTHER INFORMATION: Description of Artificial Sequence: oligo
 67 <400> SEQUENCE: 4

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76 <220> FEATURE:
77 <223> OTHER INFORMATION: Description of Artificial Sequence: linker I
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81 1 5 10
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 5
86 <212> TYPE: PRT
87 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Description of Artificial Sequence: linker II
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94 1 5
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132 tc 62
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136 <211> LENGTH: 37
137 <212> TYPE: DNA
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141 <223> OTHER INFORMATION: Description of Artificial Sequence: oligo
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165 <223> OTHER INFORMATION: Description of Artificial Sequence: oligo
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174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Description of Artificial Sequence: vector
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181 atctcagaag aggatctgaa ttcccatcat catcaccatc actaataa          108
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199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
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209 <211> LENGTH: 241
210 <212> TYPE: PRT
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213 <220> FEATURE:

214 <223> OTHER INFORMATION: Description of Artificial Sequence: scFv

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218 1 5 10 15

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221 20 25 30

223 Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val

224 35 40 45

226 Ala Phe Ile Ser Ser Asp Gly Ile Ala Tyr Tyr Ala Asp Ser Val Lys

227 50 55 60

229 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu

230 65 70 75 80

232 Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala

233 85 90 95

235 Arg Val Tyr Tyr Tyr Gly Ser Ser Tyr Phe Asp Tyr Trp Gly Gln Gly

236 100 105 110

238 Thr Thr Leu Thr Val Ser Ser Glu Gly Lys Ser Ser Gly Ser Gly Ser

239 115 120 125

241 Glu Ser Lys Val Asp Asp Ile Val Met Thr Gln Ser Pro Lys Phe Met

242 130 135 140

244 Ser Thr Ser Val Gly Asp Arg Val Ser Val Thr Cys Lys Ala Ser Gln

245 145 150 155 160

247 Asn Ala Gly Thr Asn Val Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ser

248 165 170 175

250 Pro Lys Ala Leu Ile Tyr Ser Ala Ser Ser Arg Asn Ser Gly Val Pro

251 180 185 190

253 Asp Arg Ile Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile

254 195 200 205

256 Ser Asn Val Gln Ser Glu Asp Leu Ala Glu Tyr Phe Cys Gln Gln Tyr

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271 <220> FEATURE:

272 <223> OTHER INFORMATION: Description of Artificial Sequence: diabody

274 <400> SEQUENCE: 17

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276 1 5 10 15

278 Ser Leu Lys Phe Ser Cys Ala Ala Ser Gly Phe Pro Phe Asn Arg Tyr

279 20 25 30

281 Ala Met Ser Trp Val Arg Gln Thr Pro Glu Lys Arg Leu Glu Trp Val

282 35 40 45

284 Ala Phe Ile Ser Ser Asp Gly Ile Ala Tyr Tyr Ala Asp Ser Val Lys

285 50 55 60

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287 Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Arg Asn Ile Leu Tyr Leu
288 65          70          75          80
290 Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala
291          85          90          95
293 Arg Val Tyr Tyr Tyr Gly Ser Ser Tyr Phe Asp Tyr Trp Gly Gln Gly
294          100         105         110
296 Thr Thr Leu Thr Val Ser Ser Gly Gly Gly Gly Ser Asp Ile Val Met
297          115         120         125
299 Thr Gln Ser Pro Lys Phe Met Ser Thr Ser Val Gly Asp Arg Val Ser
300          130         135         140
302 Val Thr Cys Lys Ala Ser Gln Asn Ala Gly Thr Asn Val Ala Trp Tyr
303 145          150         155         160
305 Gln Gln Lys Pro Gly Gln Ser Pro Lys Ala Leu Ile Tyr Ser Ala Ser
306          165         170         175
308 Ser Arg Asn Ser Gly Val Pro Asp Arg Ile Thr Gly Ser Gly Ser Gly
309          180         185         190
311 Thr Asp Phe Thr Leu Thr Ile Ser Asn Val Gln Ser Glu Asp Leu Ala
312          195         200         205
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315          210         215         220
317 Ala Gly Thr Lys Leu Glu Leu Lys
318 225          230
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326 <220> FEATURE:
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329 <400> SEQUENCE: 18
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350 <220> FEATURE:
351 <223> OTHER INFORMATION: Description of Artificial Sequence: diabody MS
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357 <210> SEQ ID NO: 21
358 <211> LENGTH: 255
359 <212> TYPE: PRT

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/511,794

DATE: 10/27/2004

TIME: 15:34:46

Input Set : A:\976-20 PCT US seq list.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application Number